

Current Trends in Open Repositories & Exemplary Local Solutions

European Perspective

This Talk

- Objective
 - Report observations on recent developments
 - Provide a European, German, institutional perspective
- Coverage
 - selective, subjective, cursory, data-centric
- Audience addressed
 - Repository Community, Information Specialists ...
- Approach wisdom of crowds
 - Open Repositories 2010 Conf. assumed as representative
 - General session themes taken as starting points

Overview

Inspired by: OR2010 General Session Themes

- **REPOSITORIES AS POLICY DRIVERS**
 - Open Access Policy
 - National Approaches
 - Usage Statistics
- **REPOSITORIES AS EMBEDDED SYSTEMS**
 - Administrative Systems
 - Citation & Bibliography
 - Data Integration & Disambiguation
- **REPOSITORIES AS MULTI-OBJECT TOOLS**
 - Research Data
 - Academic Workflows
 - Digital Preservation & Archiving
 - Repository Platforms
 - Repository Interoperability

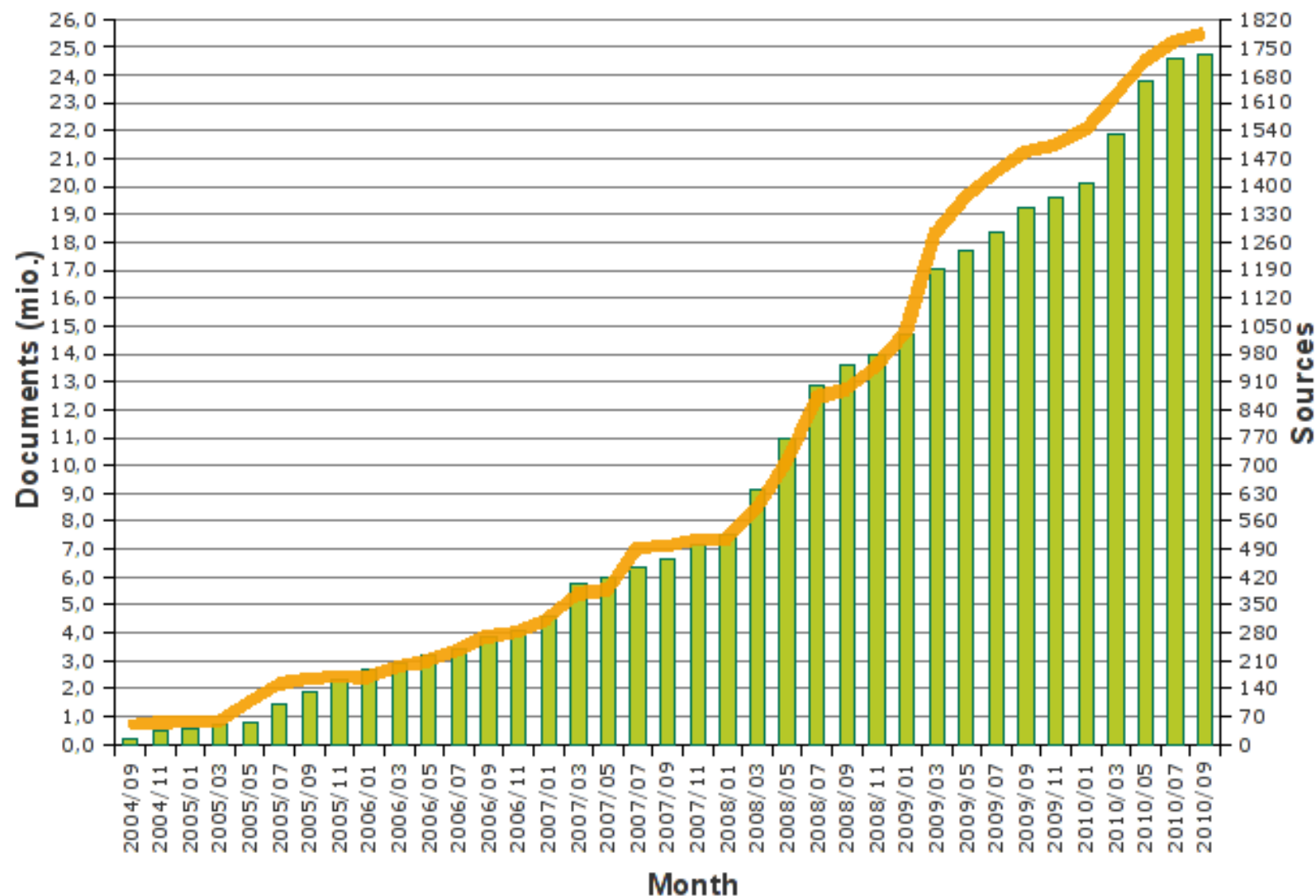
REPOSITORIES AS POLICY DRIVERS

Open Access Policy^{OR2010}

- Vision: Open Access objects as commodity
 - Not an ethical issue but most efficient mode of scholarly and scientific communication
- Practice: Considerable growth but tedious
 - More policies (publisher; institutional; funders: EC)
 - More repositories & documents (cf. BASE/Sherpa)
 - But systematic input of data lacks automation
- Forecast: Further incremental progress

„Yes, document repositories are gaining significance!“

Number of Documents  and Sources  in BASE



BASE - Bielefeld Academic Search Engine (<http://www.base-search.net/>)

National Approaches^{OR2010}

- Vision: Institutional>national>global structure
 - Geographic regime builds on reliable institutions
- Practice: Europe strong, but all is still stringy
 - Some functional chains of comm. OpenAIRE, Japan, China
 - Disciplinary worlds work differently
- Forecast: Mixed geographic and subject system
 - Invisible automatic exchange will blur boundaries

e.g. EC-Policy



Open Access
Infrastructure
for Research in Europe

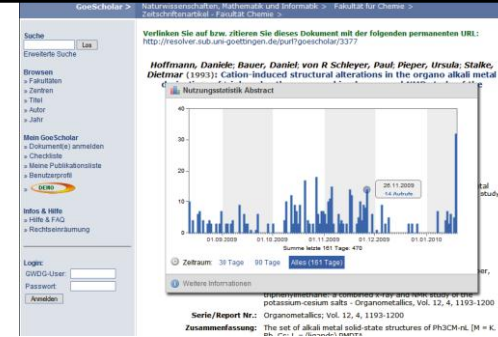
OpenAIRE

- Support for European Commission OA Pilot
- Built on DRIVER repository network
 - Full-Text OAI-PMH-Guidelines in 2007
- Contractual obligation for ~30% of European Funding: „Special Clause 39“
- National OA Desks in each country est.
- „Magic multiplexer“ between publishers, institutional, subject repositories and Orphan
 - Automation requires project information
 - Local repositories and OJS already „compliant“

e.g. usage statistics

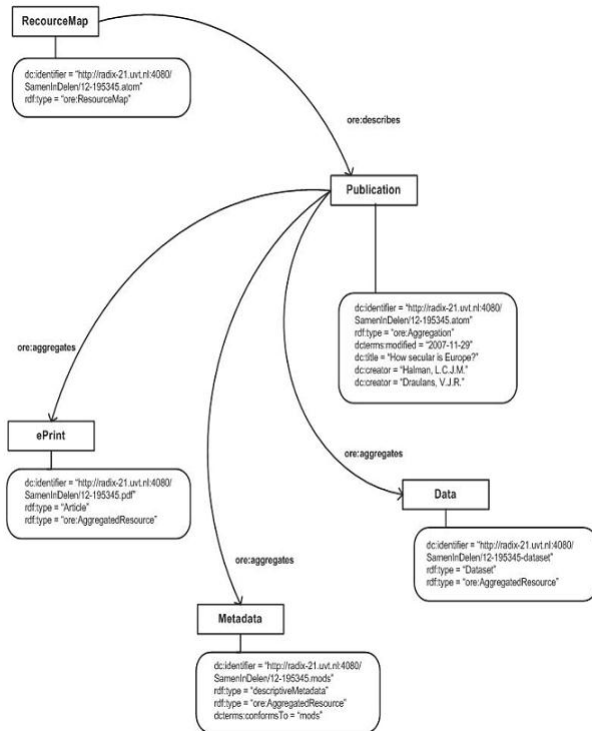
Bottom-up interoperability policy development

- National Approaches for usage statistics
 - Standardization for click spans, bot filtering, exposure, harvesting etc.
 - UK: [PIRUS](#) as COUNTER derivative
 - DE: [OA-Statistics](#) in German DINI-Network
 - NL: [SURFshare](#) in DAREnet/NARCIS
- Cooperation in [Knowledge Exchange](#)
 - Common [guidelines](#)
- Application in OpenAIRE at EC-level



e.g. Enhanced Publications

Directed interoperability policy development



driver
Digital Repository Infrastructure Vision for European Research

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Enhanced Publications
The evolutions in the scientific communications landscape have made it possible for researchers to upload and archive the research data underlying their publications, making the material in repositories very heterogeneous, hence more complex. The access to these 'enhanced publications' (mostly including several files of different formats, often archived in different places) is one of the main technical objectives of DRIVER-II.

ESCAPE visualiser
ontwikkeling van een visualisatie browser component voor Verrijkte publicaties in de ESCAPE tool (escape.utwente.nl)

ESCAPEvisualiser

escape laatste ontwerp jan 2011 | narcis concept ontwerp dec 2010 | escape visualisatie 2009 | SURFshare concept 2009 | DRIVER-II concept 2008

vrijdag, 31 december 2010

Live test voorbeeld

- Latest build: <http://escape.q42.net>
- embedded in productie omgeving escape.utwente.nl:
 - o voorbeeld 1: demo aggregation snapping shrimps
 - o voorbeeld 2: Centrum voor Openbare Orde Handhaving
 - o voorbeeld 3: Communicatie met burgers over overstromingen
 - o voorbeeld 4: escape project aggregation

Grafisch ontwerp

REPOSITORIES AS EMBEDDED SYSTEMS

Bibliography & Citation^{OR2010}

- Vision: R's for authors' publication management
 - Personal publication lists & reference management
- Practice: Please full-texts – but contextualized
 - Bibliographic completion is handwork; Web2tools
 - Citations not in R's but in GS, WoK, PMC, Inspire
- Forecast: Completeness is clue
 - Authors only take serious if really good

Administrative Systems^{OR2010}

- Vision: Authors use repositories for reporting
 - Institutional bibliography, policy compliance
 - Why report twice? Double-input a „no-go“!
- Practice: Cautious opening of „official“ systems
 - Re-use – e.g. alerting – requires disambiguation
 - Reporting needs authoritative data persons, departments...
 - But: closed shops and IT-integration problems e.g. IDM
- Forecast: Success for R's with CRIS interfaces

Data Integration & Disambiguation^{OR2010}

- Vision: Automated exchange of publication data
 - Bibliographic data is already out there: so re-use!
- Practice: Examples? Yes, but few!
 - Fetch of data from WoS, ArXiv, PMC: Who does it?
 - E.g. Author disambiguation: „Is Meyer Meyer?“
 - Also departments, institutions, classifications
- Forecast: (Inter-)National authority files /IDs
 - Terminology services used to disambiguate

e.g. an adaptive repository

- PubLister – on the way to an integrated-autonomous local research documentation management.
 - Support personal and community needs
 - Personal publication lists, citation style rendering
 - Embedding-services in faculty- and group-sites
 - ISI-WoK, PMC, ArXiv, BMC > PUB > OAI, SRU, http, SNIPPETS,
 - Repository more and more hidden
 - Transition to research data management
 - Enhanced Publications
 - Research Life-Cycle-Support

Navigation

- ■ PUB Startseite
- ■ Erste Schritte zur persönlichen Publikationsliste
- ■ Wichtige Informationen zur Umstellung
- ■ Publikationslisten einbetten
- ■ Publikationen in PUB suchen
- ■ PUB Support

PUB – Publikationen an der Universität Bielefeld

PUB - Publikationen an der Universität Bielefeld bietet Ihnen einen Service zur Darstellung Ihrer persönlichen Publikationslisten im Internet.

Bitte beachten Sie, dass Sie Ihre Literaturangaben Bielefelder Personen und Einrichtungen zuordnen müssen, damit diese öffentlich sichtbar sind. Bei Literaturangaben aus dem ISI Web of Knowledge, der FoDa und BiPrints brauchen Sie die Angaben nur noch zu überprüfen. Wie es geht, erfahren Sie unter **Erste Schritte zur persönlichen Publikationsliste**

Wichtige Informationen zur Umstellung

- | Wer ist zuständig für Fragen zu PUB?
- | Wie funktioniert die Registrierung in PUB?
- | Kann ich meine Publikationsliste individuell anpassen?
- | Meine Liste enthält doppelte Datensätze. Wie soll ich damit umgehen?
- | Eine systematische Publikationsliste ist bereits durch meine Einrichtung oder meine eigene Initiative vorhanden. Muss ich trotzdem etwas machen?
- | Was geschieht mit Informationen zu Projekten, Dissertationen, Habilitationen und Wissenschaftspreisen?
- | Kann ich meine Daten aus der FoDa weiter nutzen?

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Registrierung für Erstnutzer

Bitte registrieren Sie sich vor der ersten Nutzung in PUB mit HRZ-Benutzername und Passwort

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Wenn Sie schon in PUB registriert sind, können Sie sich hier direkt einloggen

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







Export Reference Manager 


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Viewing Options


<input type="checkbox"/>	Year ↑	Publication (Author/Editor Title Source)	Data Source	Publication Type	Status in PUB	Changed
<input type="checkbox"/>	2010	→  Horstmann, Wolfram ; Jahn, Najko Persönliche Publikationslisten als hochschulweiter Dienst – Eine Bestandsaufnahme BIBLIOTHEK – FORSCHUNG UND PRAXIS, 34 (2) , p. 185 – 193 Language: ger (Search for duplicates / View)		Journal Article	Public 	2011-01-26 14:37:39 
<input type="checkbox"/>	2010	→ Jahn, Najko ; Lösch, Matthias ;  Horstmann, Wolfram Automatic Aggregation of Faculty Publications from Personal Web Pages CODE4LIB, 11 Language: eng (Search for duplicates / View)		Journal Article (Original)	Public 	2011-01-11 17:15:33 
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<input type="checkbox"/>	2009	→ Höppner, Michael ;  Horstmann, Wolfram ; Rahmsdorf, Sabine "Upgrading the eLibrary: enhanced information services driven by technology and economics": Proceedings of the 9th International Bielefeld Conference, Bielefeld, Germany, 3-5 February 2009 LIBRARY HI TECH, 27 (4) , p. 493 – 495 Language: eng (Search for duplicates / View)	ISI	Journal Article (Letter Note)	Public 	2010-08-23 09:43:13 
<input type="checkbox"/>	2008	→ Foulonneau, Muriel ; Badolato, Anne-Marie ;  Horstmann, Wolfram ; Van Godtsenhoven, Karen et. al. Réseaux d'archives institutionnelles en Europe : logiques de développement et convergences AMETIST, 2 (2) Language: fre (Search for duplicates / View)		Journal Article (Original)	Public 	2010-09-23 15:16:38 
<input type="checkbox"/>	2008	→  Horstmann, Wolfram Data-processing, Data-transfer and Search: Further Technical Challenges for Open Access OPEN ACCESS. OPPORTUNITIES AND CHALLENGES – A HANDBOOK (EUROPEAN COMMISSION/GERMAN COMMISSION FOR UNESCO) , p. 66 – 69 Publisher: Office for Official Publications of the European Communities Language: eng (Search for duplicates / View)		Book Chapter	Public 	2010-09-23 16:05:33 

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[Dürr, Volker, Prof. Dr.](#)[Horstmann, Wolfram, Dr.](#)

BIS Links

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| [Cruse, Holk, Prof. Dr.](#)

| [Horstmann, Wolfram, Dr.](#)

Herr Prof. Dr. Volker Dürr: Persönliche Publikationsliste

- Krause, A.F., V. Dürr, B. Bläsing, & T. Schack. submitted. "Evolutionary optimization of echo state networks: multiple motor pattern learning", in: *ANNIIP - 6th International Workshop on Artificial Neural Networks and Intelligent Information Processing*. 1 - 10. »»
- Krause, A.F., V. Dürr, B. Bläsing, & T. Schack. 2010. "Multiobjective optimization of echo state networks for multiple motor pattern learning", in: R. Tetzlaff, W. Schwarz, & K. Kelber (Eds.), *18th IEEE Workshop on Nonlinear Dynamics of Electronic Systems (NDES 2010)*. 190 - 193. »»
- Bockemühl, T., N.F. Troje, & V. Dürr. 2010. "Inter-joint coupling and joint angle synergies of human catching movements". *Hum.Movement Sci.*, 29(1), 73 - 93. »»
- Dürr, V., J.M. Ache, & A.F. Krause. 2009. "Effects of active head movement on near-range tactile sensing and far-range vision", in: *Proc.Göttingen.Neurobiol.Conf.*. »»
- Westmark, S., & V. Dürr. 2009. "Functional grouping of descending interneurons that mediate antennal mechanosensory information to motor networks", in: *Proc.Göttingen.Neurobiol.Conf.*. »»
- Cruse, H., V. Dürr, M. Schilling, & J. Schmitz. 2009. "Bottom-up approach for cognitive control", in: P. Arena, & L. Patané (Eds.), *Spatial temporal patterns for action-oriented perception in roving robots*. Springer, 179 - 218. »»
- Cruse, H., V. Dürr, M. Schilling, & J. Schmitz. 2009. "Principles of insect locomotion", in: P. Arena, & L. Patané (Eds.), *Spatial temporal patterns for action-oriented perception in roving robots*. Springer, 43 - 96. »»
- Krause, A.F., B. Bläsing, V. Dürr, & T. Schack. 2009. "Direct control of an active tactile sensor using echo state networks", in: *Proceedings of the 3rd International Workshop on Human-Centered Robotic Systems (HCRS 09)*. »»
- Westmark, S., & V. Dürr. 2008. "Descending interneurons involved in antennal mechanosensory information transfer to the thorax", in: *Soc.Neurosci.Abs.*. »»

Hinweise zur Publikationsliste

Die hier gezeigten Publikationen werden automatisch aus dem PUB Dienst der Universitätsbibliothek eingebunden.

Bei Fragen zur oder Korrekturwünschen an der Publikationsliste finden Sie hier die richtigen AnsprechpartnerInnen:

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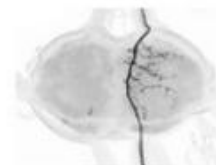
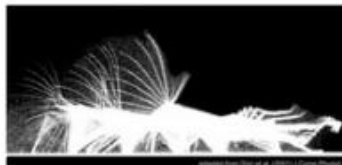
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Welcome

to the Department of Biological Cybernetics at the University of Bielefeld.



We are a young, cross-disciplinary research group that combines approaches from behavioural physiology, electrophysiology, informatics and bionics. Our focus in research is on **sensory-guided control of behaviour** in insects and **bio-inspired robotic systems**. Our overall goal in science is to provide **formal models** of the mechanisms underlying the **control of natural movement and action sequences**.

The Department of Biological Cybernetics is part of the **Center of Excellence in Cognitive Interaction Technology, CITEC**, and also of the focus group on **Neurobiology & Behaviour** within the Faculty of Biology.

The Department of Biological Cybernetics has been founded in 1980. The first head of department was **Holk Cruse**. In 2009, the lab was fundamentally restructured. It is now headed by **Volker Dürr**.

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All

- Bockemühl, T., N.F. Troje, & V. Dürr. 2010. "Inter-joint coupling and joint angle synergies of human catching movements". *Hum.Movement Sci.*, 29(1), 73 - 93. »»
- Cruse, H., & M. Schilling. 2010. "Chunking by naming: a nonlinear recurrent network for storing hierarchical memory contents.", Dresden, 202 - 205. »»
- Fuss, N., S. Mujagic, J. Erber, S. Wachten, & A. Baumann. 2010. "Biochemical properties of heterologously expressed and native adenylyl cyclases from the honeybee brain (*Apis mellifera* L.)". *INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY*, 40(8), 573 - 580. »»
- Krause, A.F., V. Dürr, B. Bläsing, & T. Schack. 2010. "Multiobjective optimization of echo state networks for multiple motor pattern learning", in: R. Tetzlaff, W. Schwarz, & K. Kelber (Eds.), *18th IEEE Workshop on Nonlinear Dynamics of Electronic Systems (NDES 2010)*. 190 - 193. »»
- Krause, A.F., V. Dürr, B. Bläsing, & T. Schack. submitted. "Evolutionary optimization of echo state networks: multiple motor pattern learning", in: *ANNIIP - 6th International Workshop on Artificial Neural Networks and Intelligent Information Processing*. 1 - 10. »»
- Paskarkeit, J., J. Schmitz, M. Schilling, & A. Schneider. 2010. "Design of an insectoid robot as a versatile carrier for bioinspired sensors". *Proc.Int.Conf.Climbing and Walking Robots, CLAWAR*. »»
- Cruse, H., & M. Schilling. 2010. "Learning and retrieval of hierarchically organized information in a simple, one-layered RNN", in: *Unknown*. Barcelona, 521 - 528. »»
- Cruse, H., & M. Schilling. 2010. "Getting cognitive", in: B. Bläsing, M. Puttke, & T.

Biological Cybernetics
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SFB 673

No Time to Lose? Time Shrinking Effects enhance the Impression of Rhythmic "Isochrony" and Fast Speech Rate

Authors: Wagner, P., & Windmann, A.

Organizational Units: B4: Rhythm and timing in dialogue

Abstract: Time Shrinking denotes the psychoacoustic shrinking effect of a short interval on one or several subsequent longer intervals. Its effectiveness in the domain of speech perception has so far not been examined. Two perception experiments clearly suggest the influence of relative duration patterns triggering time shrinking on the perception of tempo and rhythmical isochrony or rather "evenness". A comparison between the experimental data and duration patterns across various languages suggest a strong influence of time shrinking on the impression of isochrony in speech and perceptual speech rate. Our results thus emphasize the necessity of taking into account relative timing within rhythmical domains such as feet, phrases or narrow rhythm units as a complementary perspective to popular global rhythm variability.

Fulltext:



[is2009_pwagner.pdf](#)

Suggested Citation: Wagner, P., & Windmann, A. (2009). No Time to Lose? Time Shrinking Effects enhance the Impression of Rhythmic "Isochrony" and Fast Speech Rate. *Interspeech 2009, Brighton*, 1523-1526.

Publication type: Conference contribution

Document version: Open access fulltext

URL: <http://sfb673.ub.uni-bielefeld.de/publications/402>

BiPrints entry of this document

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Publication	Status
Lohmar, Achim (2010). Was ist eigentlich Toleranz? Zeitschrift für philosophische Forschung. 64 (1), 10.3196/004433010791058717. Journal article German	published
Schepers, Gesine (2010). Der Wert biologischer Vielfalt. In Feit, U. & Korn, H. (Bearb.), Treffpunkt Biologische Vielfalt IX. Interdisziplinärer Forschungsaustausch im Rahmen des Übereinkommens über die biologische Vielfalt. BfN-Skripten 265. (pp. 189-197). Bonn/Bad Godesberg: Bundesamt für Naturschutz. Keywords: biologische Vielfalt, Biodiversität, indirekter Wert, direkter Wert, ästhetischer Wert, Naturschutz, medizinischer Wert, Optionenvielfalt, Freiheit, biodiversity, indirect value, direct value, nature conservation, aesthetic value, medical value, diversity of options, freedom, liberty Book chapter/section German	published
Wiholt, Torsten (2010). Scientific Freedom: Its Grounds and Their Limitations. Studies in History and Philosophy of Science. 41 (2), 174–181. Journal article English	published Draft Request a copy
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Wolff, Michael (2010). Begriff des Widerspruchs: eine Studie zur Dialektik Kants und Hegels. (Neuausgabe)Frankfurt: Frankfurt University Press. Book German	published
Beckermann, Ansgar (2009). Artikel "Willensfreiheit". In Lexikon Philosophie. Hundert Grundbegriffe (pp. 305-307) Stuttgart: Reclam Encyclopedia article German	published

REPOSITORIES AS MULTI-OBJECT TOOLS

Research Data^{OR2010}

- Vision: Researchers *can* easily submit data
 - Higher transparency, cost-efficiency
 - But please provide differential access
- Practice: Highly heterogeneous over disciplines
 - E.g. Bioinformatics (~open) & engineering (~closed)
 - Funders require data management plan
- Forecast: Subject based practice dominates
 - No generic basis as in text-based documents
 - Only basic archiving may be common denominator

Digital Preservation & Archiving^{OR2010}

- Vision: Researchers have trusted archives
 - Particularly important for research data, where no est. publishing system can catch the trust
- Practice: Documents feasible, Data in question
 - Many important insights, but too ambitious
 - National libraries and data archives on the move
- Forecast: hot-service if approached practically
 - 3-5-10 years pragmatic preservation: then let's see!
 - „What can you promise?“ vs. „What can't be promised“

Academic Workflows^{OR2010}

- Vision: R's embedded in research process
 - Virtual Research Environments: Service mash-ups
 - Specificity requires customization
- Practice: Again, docs feasible – data in question
 - Generic: Office, calendar, web-sites, documentation
 - Specific: Research tools and workflows
- Forecast: Self-maintained repository platforms
 - Research cultures vs. institutional service dev.
 - Local tekkies and central service collaboration

Repository Platforms^{OR2010}

- Vision: Solid and sustained multi-purpose R's
 - Research Data and administrative functionality
 - Developer communities go business
- Practice: Extension of existing, still newcomers
 - Dspace, Eprints, Fedora, Opus extended
 - PubMan/eSciDoc, Invenio etc. maturing
 - „Competition“ from VCSs and Web-CMS?
- Forecast: Further consolidation

Repository Interoperability^{OR2010}

- Vision: R's with many tentacles and glands
 - Bidirectional interfaces for data and protocols
 - „Repositories as pipelines“, Micro-Services
- Practice: OAI-PMH still dominates, others come
 - REST/SOAP, XMLHttpRequest, SWORD, SRU, Feeds, OAI-ORE, Linked Data / RDF: what have you got!?
- Forecast: Technology savvy staff required
 - Customizing interfaces not out-of-the-box

e.g. Data Management

- DFG-Guidelines in Germany cf. NSF Data Management Plan
 - *Primärdaten als Grundlagen für Veröffentlichungen sollen auf haltbaren und gesicherten Trägern in der **Institution**, wo sie entstanden sind, für zehn Jahre aufbewahrt werden.*
DFG -Richtlinien „Guter Wissenschaftlicher Praxis“ 17. Juni 1998
 - *Wenn aus Projektmitteln systematisch (Mess-)Daten erhoben werden, die für die Nachnutzung geeignet sind, legen Sie bitte dar, welche Maßnahmen ergriffen wurden bzw. während der Laufzeit des Projektes getroffen werden, um die Daten nachhaltig zu sichern und ggf. für eine erneute Nutzung bereit zu stellen. Bitte berücksichtigen Sie dabei auch – sofern vorhanden – die in Ihrer Fachdisziplin existierenden Standards und die Angebote **bestehender Datenrepositorien**.*
DFG –Leitfaden für Antragsteller August 2010
- Institutions required to have concepts!

Datenservicezentrum
**Betriebs- und
OrganisationsDATEN**



Rat für Sozial- und
Wirtschaftsdaten (RatSWD)

www.ratswd.de

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Suche

DSZBO

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Services

- Information Portal
- Data Archive
- Data Access
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- Projects
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German Data Service Center for Business and Organizational Data

Scope of Services

Data Archive: Informations about empirical studies and access to their related datasets in the field of organizational research.

Technical help desk: By phone, mail oder face to face we will be approachable for any questions concerning data collection and analysis of organizational data.

Additionally you'll find information about our **current research projects** and **publications** and useful **links**.

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Institutional Infrastructure for „Human Data“

- DDI3 Life-Cycle Support
- Extension to qualitative data
 - Linking Sociology, Psychology, Linguistics, History, Economics etc.

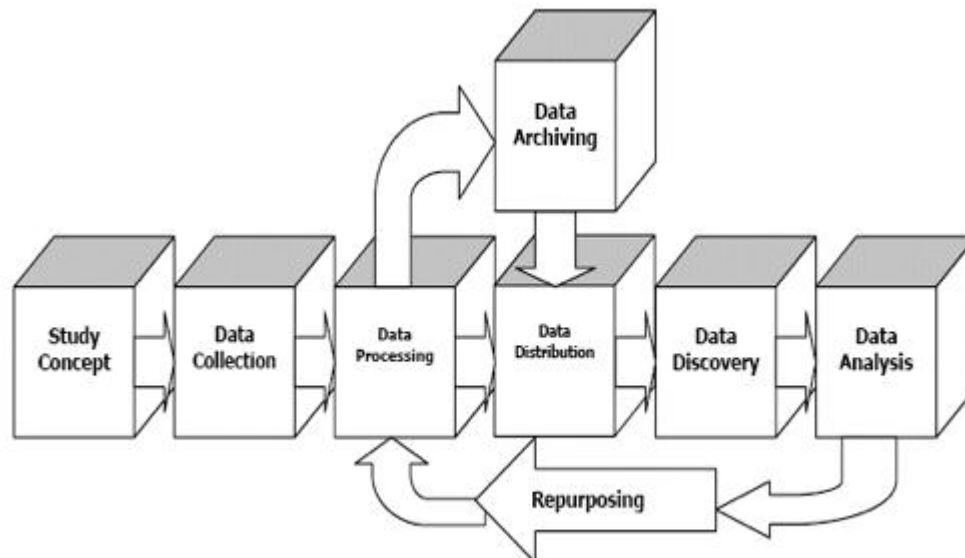


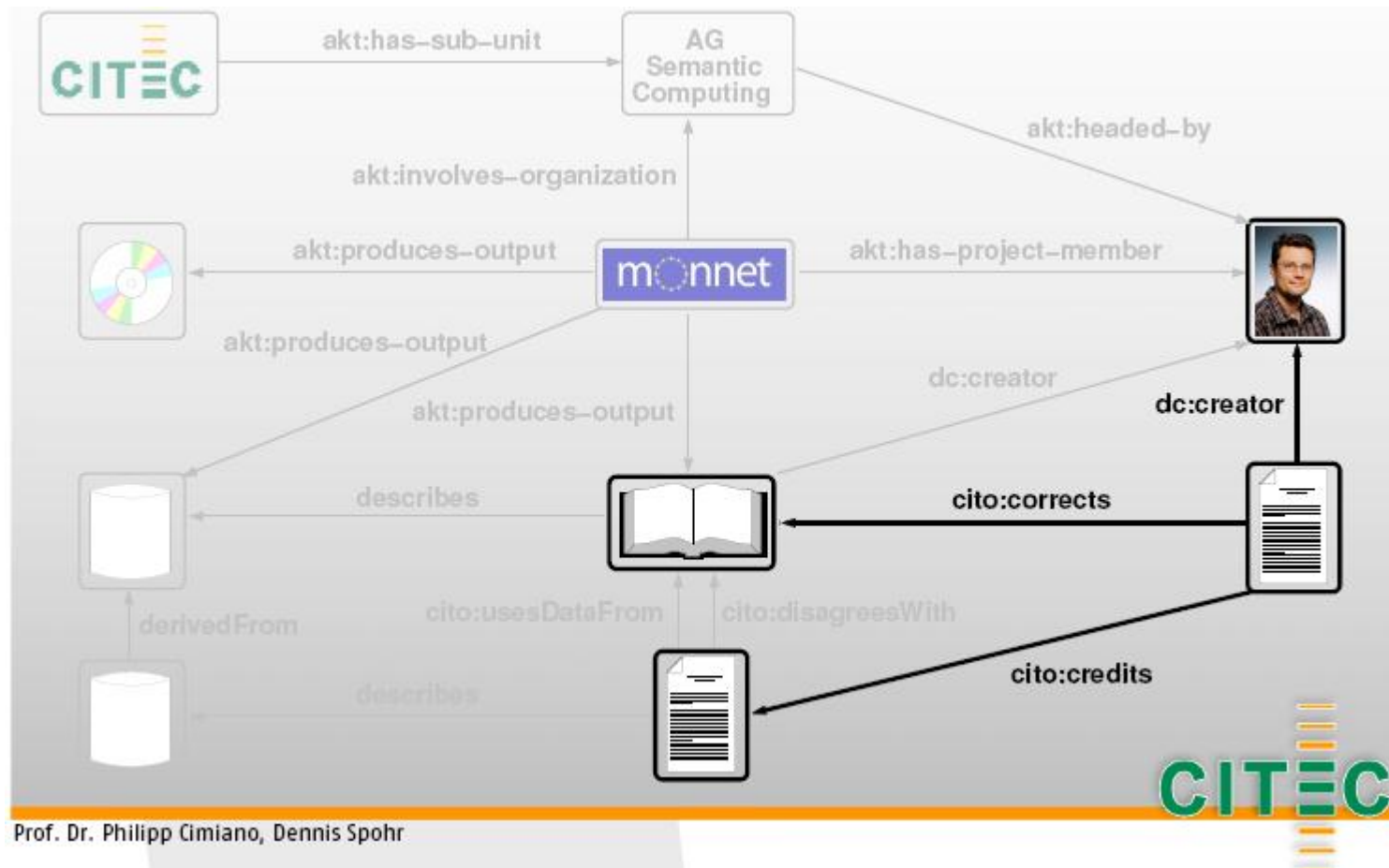
Figure 3: Combined Life Cycle Model

Data in multidisciplinary research

- CITEC – Cognitive Interaction Technology
 - Research data management is hot topic
 - Operate on OpenSource-Server, RedMine, DRUPAL
 - Multiple projects each with SVN-instance
 - Without repository?
 - 50 SVN as stores
 - Exposure of data via RDF



Semantic Exposure of Data



Bielefeld Data Informium

Interdisciplinary and Networked Strategic Positioning at Bielefeld University
in the Context of the Excellence Initiative



- Data Centers in strategic research areas
- Distributed data and method school
- Reflective research on legal and ethical aspects

Take Home Message(s)

- Repositories...
 - Are not only about Open Access anymore
 - Successive publication stages of texts & research data
 - Extend towards administration and research data
 - Bibliographic re-use, Disambiguation/IDs
 - Are embedded and embed themselves
 - Academic workflows / VREs, Frameworks, Infrastructures
 - Become a (hidden) asset vessel of the institution

Take Home Question(s)

- Are current repository platforms still capable?
 - Dissolving in storage and middleware?
 - Finally, a re-integration with software-repos.?
- Who will provide all the services?
 - Libraries in between administration and research data centers?
 - Future research library run by researchers or research run by librarians?